

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An electronic control unit for performing operation processing of an input signal, comprising:
an input terminal to which the input signal is input;
an operation processing section which executes the operation processing;
an input processing circuit which executes predetermined processing for the input signal and supplies the processed input signal to the operation processing section; and
a processing switch section which switches the predetermined processing of the input processing circuit,

wherein the input processing circuit includes:
a plurality of processing circuits different in processing for the input signal;
and
an input switch which inputs the input signal to one of the plurality of processing circuits.

2. (Original) The electronic control unit according to claim 1, wherein the processing switch section stores processing, which the input processing circuit is able to execute, as input processing information and switches the processing of the input processing circuit based on the input processing information.

3. (Original) The electronic control unit according to claim 1, wherein the processing switch section switches the processing of the input processing circuit based on an operation result output by the operation processing section.

4. (Original) The electronic control unit according to claim 1, wherein the processing switch section switches the processing of the input processing circuit in a time-sharing manner.

5. (Canceled)

6. (Currently Amended) The electronic control unit according to ~~claim 5~~claim 1, wherein:

the input processing circuit includes a plurality of processing circuits for executing the same processing for the input signal; and

when an anomaly occurs in the processing circuit, which is executing the processing, the processing switch section switches the processing circuit to another processing circuit for executing the same processing.

7. (Original) The electronic control unit according to claim 1, wherein:
the input processing circuit executes the predetermined processing for the input signal by a programmable IC; and
the processing switch section rewrites the programmable IC to switch the predetermined processing.

8. (Original) The electronic control unit according to claim 1, wherein the input processing circuit includes:
an analog/digital converter which converts the input signal into a digital signal;
and
a logical IC which executes the predetermined processing for the digital signal converted by the analog/digital converter; and
the processing switch section rewrites processing stored in the logical IC to switch the predetermined processing.

9. (Original) The electronic control unit according to claim 1, wherein:
the input terminal is a plurality of input terminals; and
the input processing circuit switches a connection relationship between the plurality of input terminals and the operation processing section.

10. (Original) The electronic control unit according to claim 9, wherein the input processing circuit executes separate processing for input signals input from the plurality of input terminals, respectively.

11. (Previously Presented) The electronic control unit according to claim 1, further comprising an output processing circuit which executes second predetermined processing for an operation result output by the operation processing section and outputs a processing result, wherein:
the processing switch section switches the second predetermined processing of the output processing circuit.

12. (Original) The electronic control unit according to claim 11, wherein the second predetermined processing is processing for giving a predetermined drive current to the operation result.

13. (Original) The electronic control unit according to claim 12, wherein:
the output processing circuit includes a plurality of driver circuits; and
the output processing circuit uses the plurality of driver circuits in combination
to generate the drive current given to the operation result.

14. (Original) The electronic control unit according to claim 13, further
comprising a plurality of output terminals, wherein:
the output processing circuit includes a dedicated driver circuit group assigned
to the plurality of output terminals; and
the output processing circuit selects at least one driver circuit used to generate
the drive current from the dedicated driver circuit group.

15. (Original) The electronic control unit according to claim 13 further
comprising a plurality of output terminals, wherein:
the output processing circuit includes a shared driver circuit group shared
among the plurality of output terminals; and
the output processing circuit selects at least one driver circuit used to generate
the drive current from the shared driver circuit group.

16. (Original) The electronic control unit according to claim 1 further comprising:
a switch management section which determines whether or not the switching
of the processing is permitted, when the processing switch section switches the predetermined
processing.

17. (Original) The electronic control unit according to claim 16, wherein the
switch management section sets request authority for the content of the switching.

18. (Original) The electronic control unit according to claim 17, wherein if an
identification signal satisfying the request authority is input in the switching, the switch
management section permits the switching of the processing.

19. (Original) The electronic control unit according to claim 17, wherein if a
switch request for the switching of the processing is input and data indicating the switch
request contains authority information satisfying the request authority, the switch
management section permits the switching requested by the switch request.

20. (Original) The electronic control unit according to claim 16, wherein:
the switch management section includes a position information acquisition
section which acquires position information; and

the switch management section determines whether or not the switching is permitted based on the position information acquired by the position information acquisition section.

21. (Currently Amended) An electronic control unit for performing operation processing of an input signal, comprising:
an input terminal to which the input signal is input;
an operation processing section which executes the operation processing;
an output processing circuit which executes predetermined processing for an operation result output by the operation processing section and outputs a processing result;
and

a processing switch section which switches the predetermined processing of the output processing circuit,

wherein the output processing circuit includes:
a plurality of processing circuits different in processing for the operation result; and

an output processing switch which inputs the operation result to one of the plurality of processing circuits.

22. (Previously Presented) An electronic control unit for performing operation processing of a plurality of input signals, comprising:
an input terminal to which the input signal is input;
an operation processing section which executes the operation processing;
an input processing circuit including a plurality of processing circuits which execute predetermined processing for each of the plurality of input signals and supply the processed input signals to the operation processing section, and to which each of the plurality of input signals are able to be input in common; and

selection means which selects at least one of the plurality of processing circuits for the input signals and inputs the input signals to the selected processing circuit.

23. (Original) The electronic control unit according to claim 22, wherein the selection means selects a plurality of processing circuits based on the input signal.

24. (Original) The electronic control unit according to claim 22, wherein:
the selection means includes a switch section which switches connection between the input signal and the processing circuit; and

the selection means controls the switching of the switch section to select at least one processing circuit.

25. (Currently Amended) ~~An~~The electronic control unit ~~for performing operation processing of an input signal, comprising~~as described in claim 1, wherein:

~~an input terminal to which the input signal is input;~~

~~an operation processing section which executes the operation processing; and~~

~~an input processing circuit which executes predetermined processing for the input signal and supplies the processed input signal to the operation processing section;~~
wherein:

~~the input processing circuit switches the predetermined processing based on~~
~~an~~ a processing change request received from an external source.

26. (Canceled)